

Publishing MicroStation content to PDF Format

8/22/2011

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This workflow provided instructions on how to publish MicroStation/InRoads content to a PDF document.

As of November 2, 2009 Engineering Applications no longer supports direct printing to a hard copy (mylar or paper) from MicroStation or InRoads. Users will first have to publish their content to a PDF Document.

Important Terms:

Publishing – The process of converting design content i.e. MicroStation Sheet Models to an electronic document (Typ. PDF).

Printing – The process of creating a hard copy on mylar or paper, from an electronic document.

To print a paper or mylar “hard copy” PDF document to the local printer or plotter, see the workflow “Printing PDF Plans”. This workflow can be found in MicroStation as shown in the figure below:

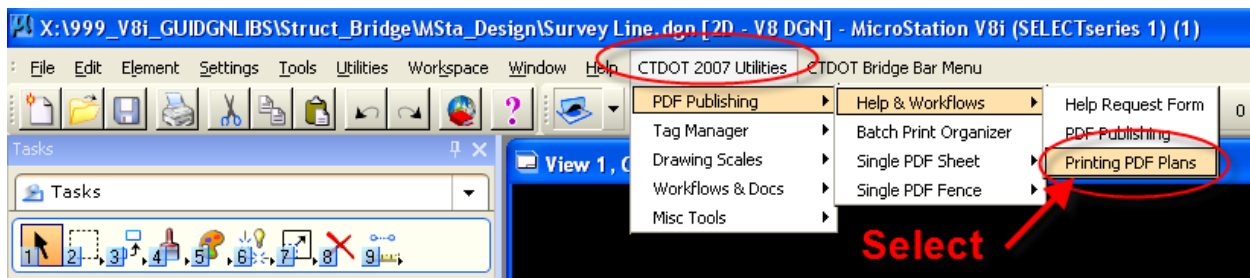


Figure 1 - PDF Publishing Workflows

Section 1 Publishing PDF Documents

1.1 Multiple Contract Sheet Models (Batch)

1. Open a MicroStation file from the project to be published.
2. From the drop down menu “CTDOT 2007 Utilities” choose the option “PDF Publishing>Batch Print Organizer”

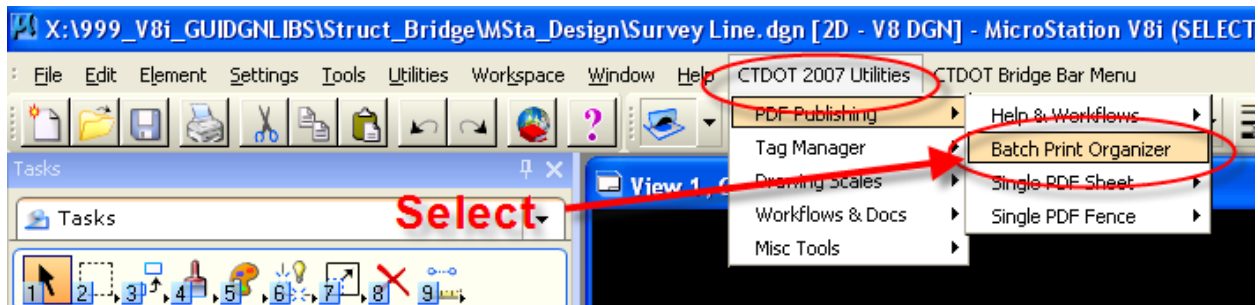


Figure 2 - Batch Print Organizer

3. The print organizer dialog box opens and the user will save the new plot set as shown below:

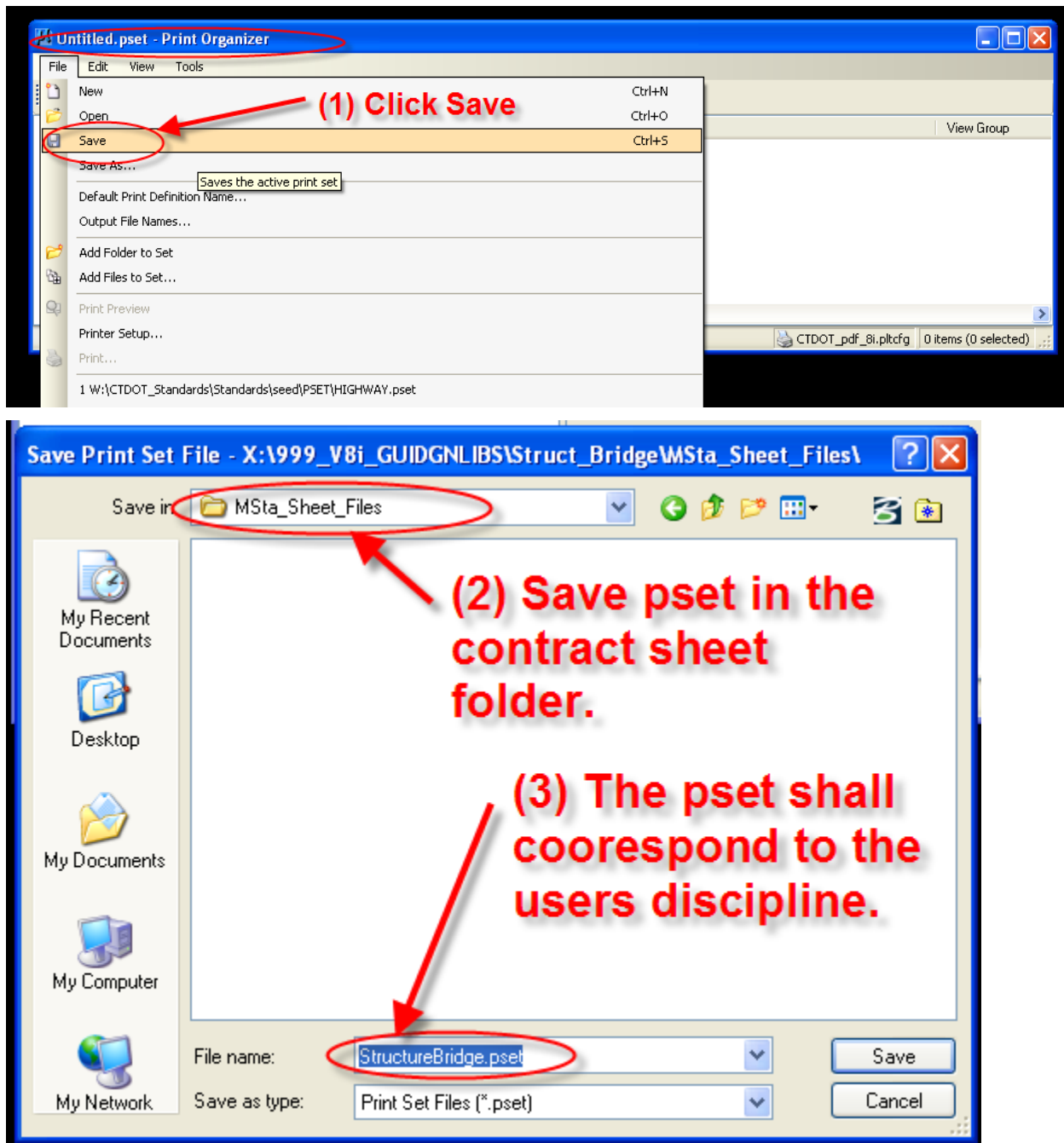


Figure 3 - Saving Pset

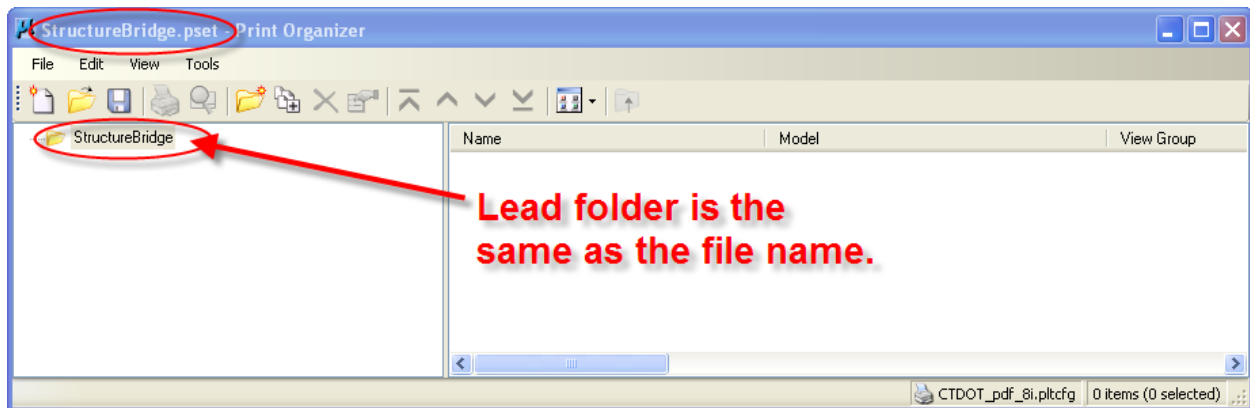


Figure 4 - Saved Print Organizer

Subfolders may be added as necessary for organization. These subfolders will be passed along to the PDF document as bookmarks, making it very easy to locate a particular sheet within a multiple page PDF. See subfolder example below:

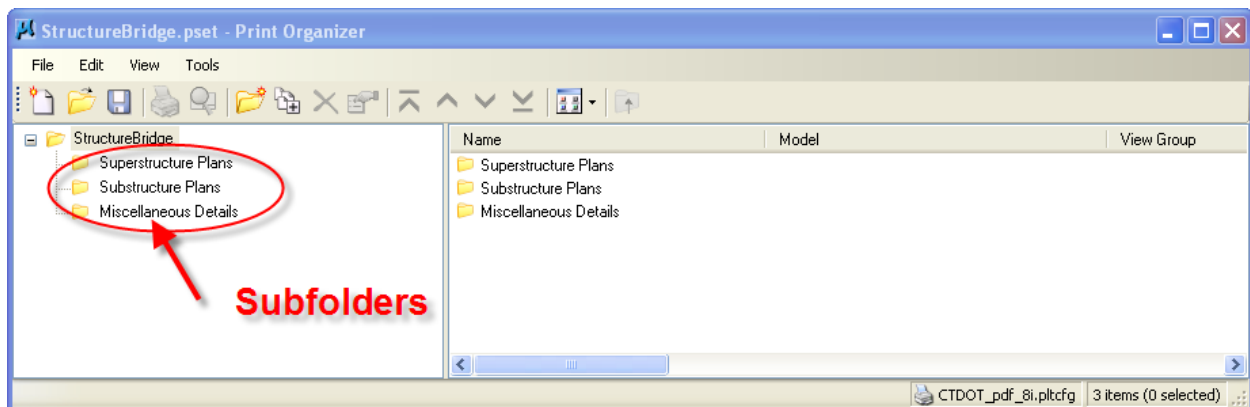


Figure 5 - Creating Subfolders

4. Follow the figures below to populate the folders:

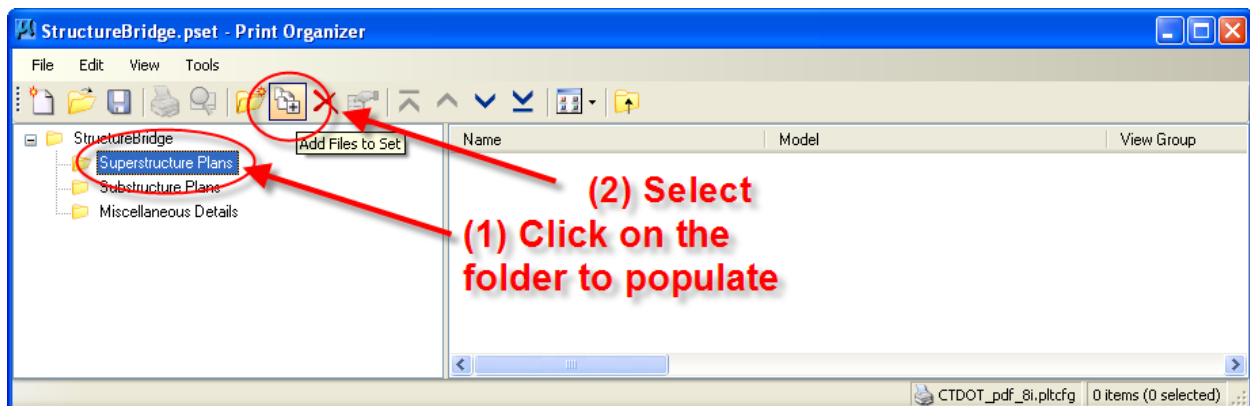


Figure 6 - Populating Subfolders

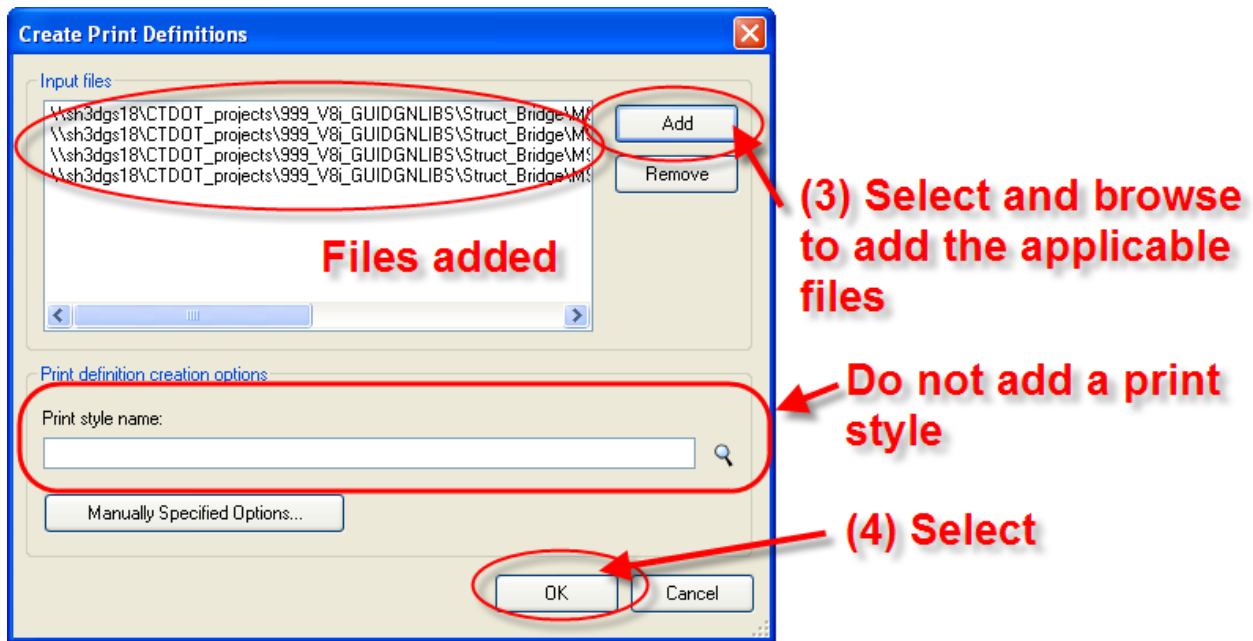


Figure 7 - Adding files

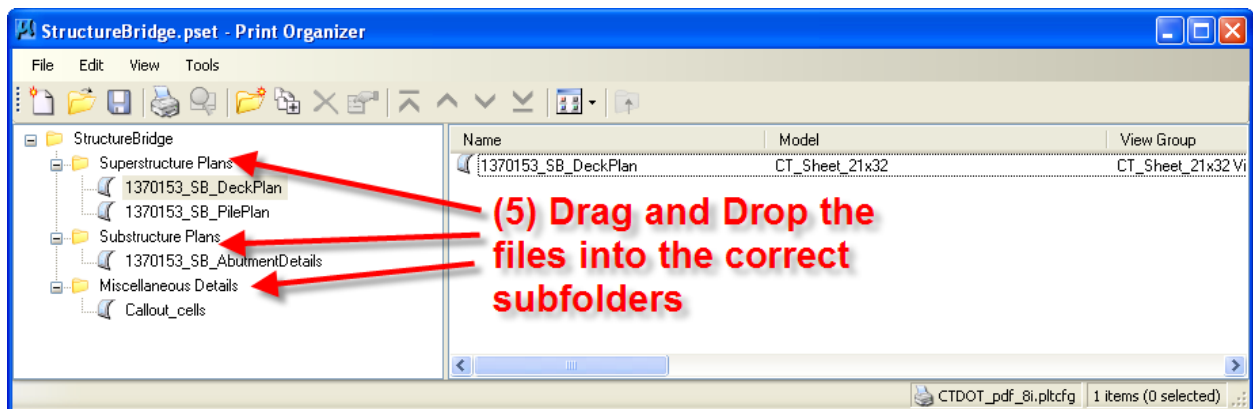


Figure 8 - Placing Files in Correct Subfolder

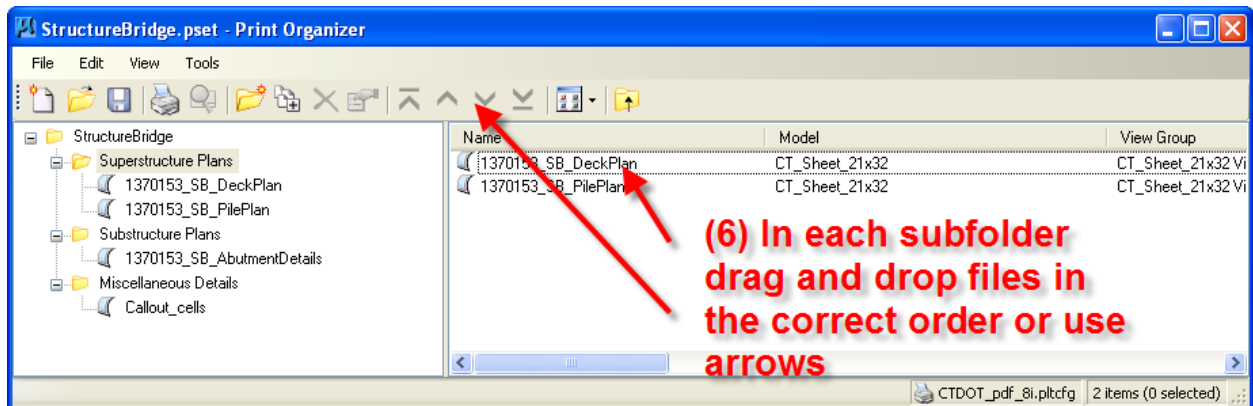


Figure 9 - Placing Files in Correct Order

5. Now that the sheet models are in the correct order they must be renamed by following the figures below:

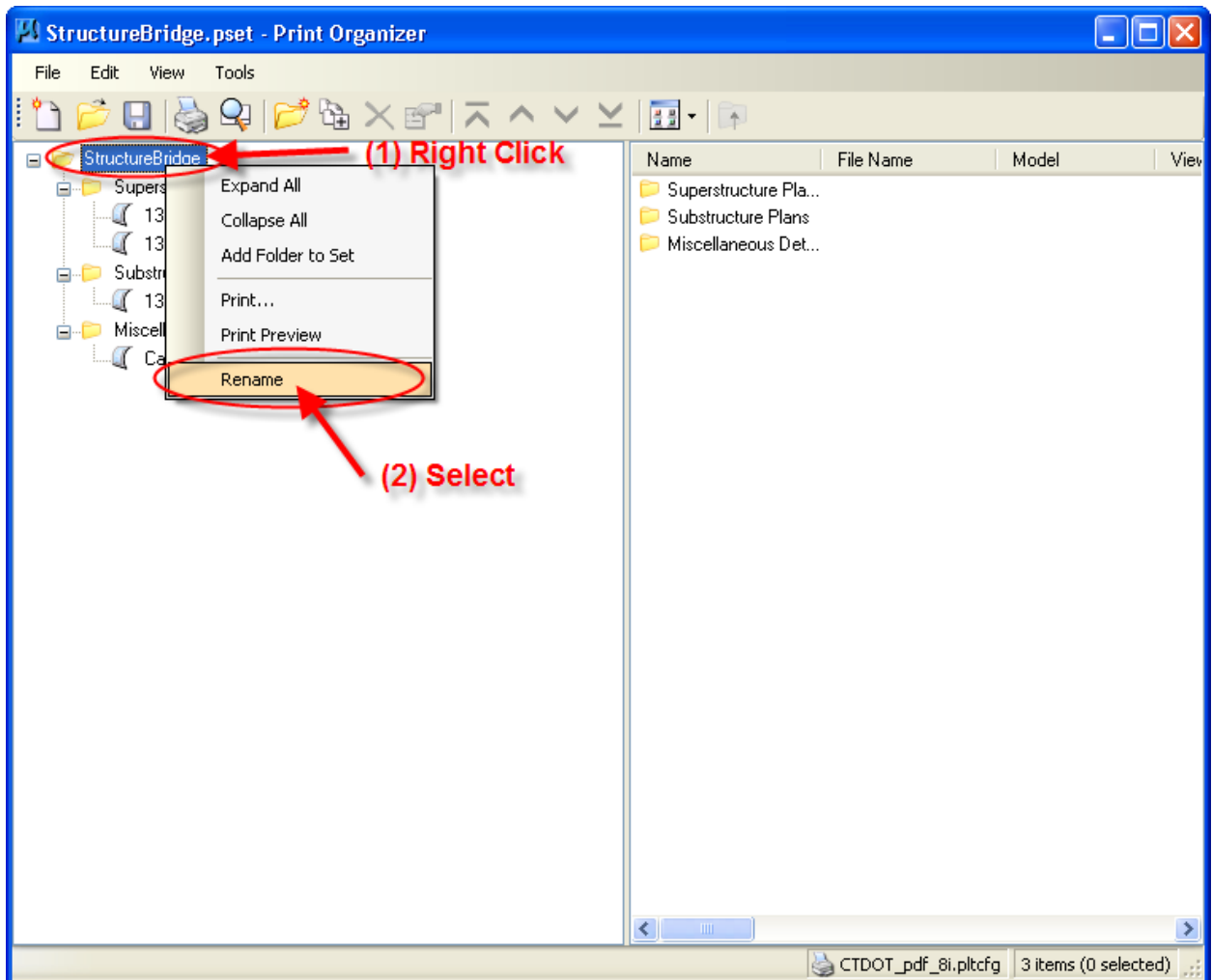


Figure 10 - Renaming Sheet Models

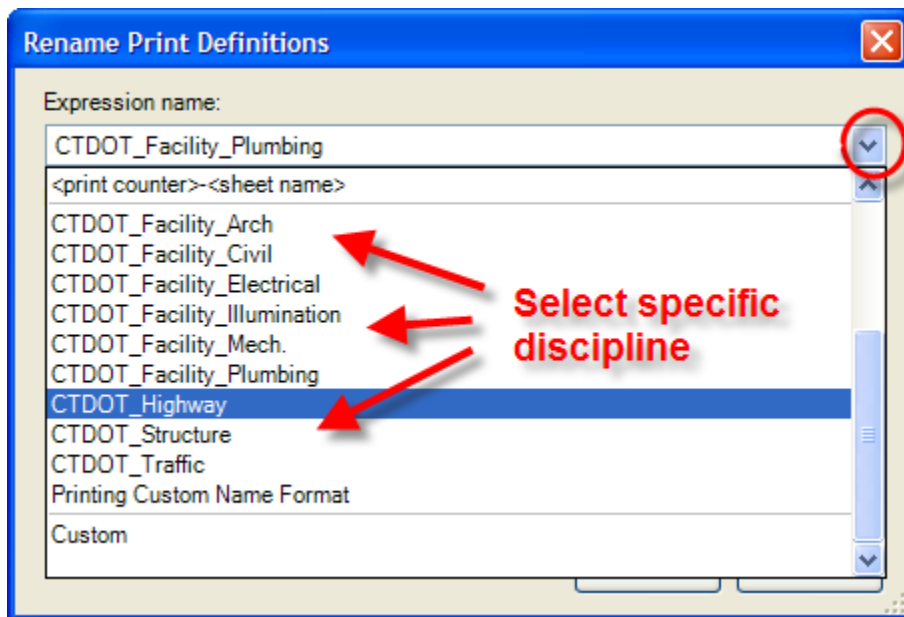


Figure 11 - Selecting Print Definition

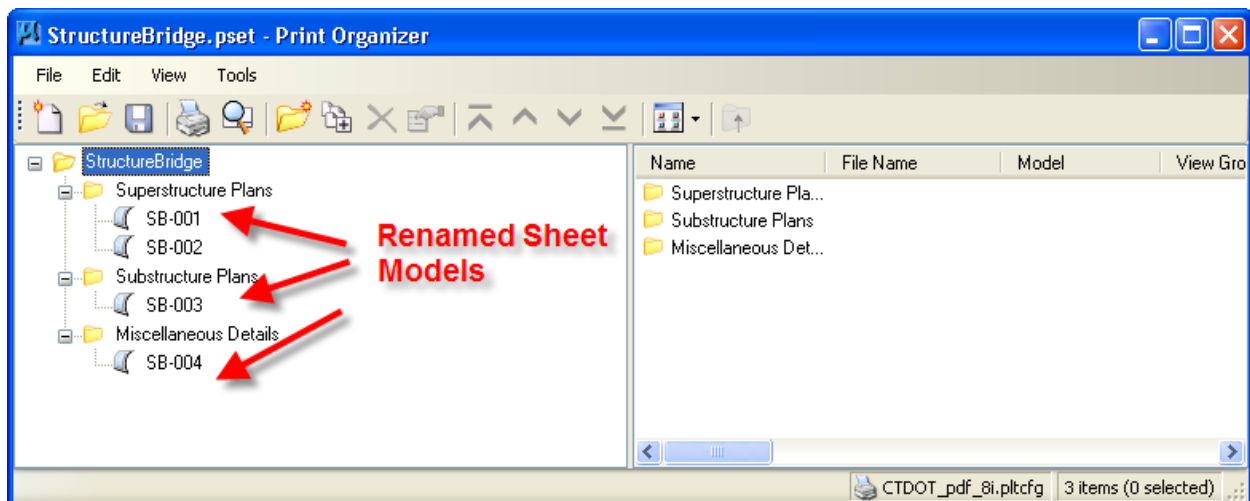


Figure 12 - Numbered Sheet Models

- Now that the sheet models are correctly named, now the sheet models can be published. Follow the figures below for publishing:

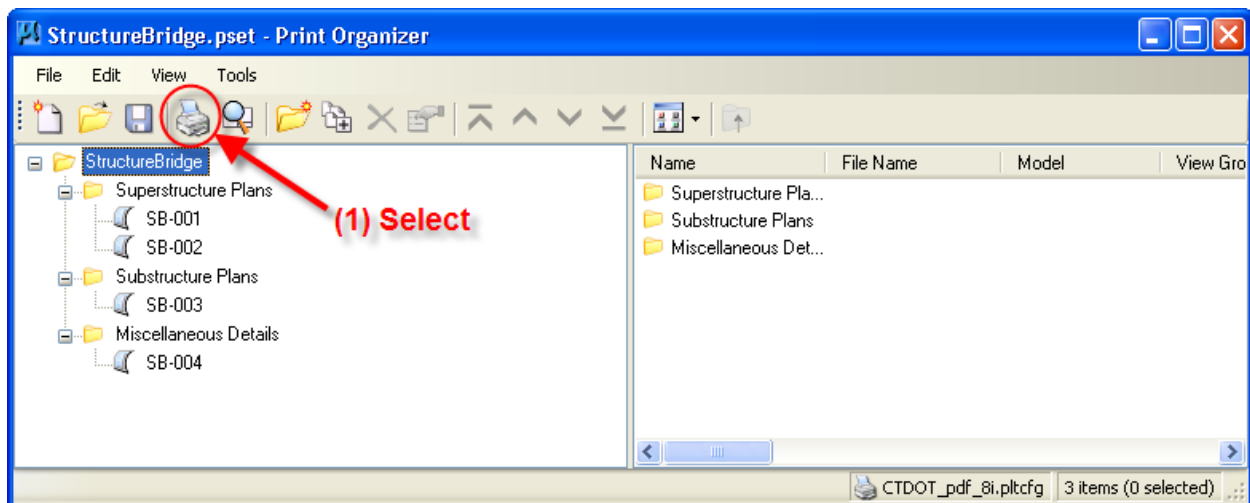


Figure 13 - Publish to PDF

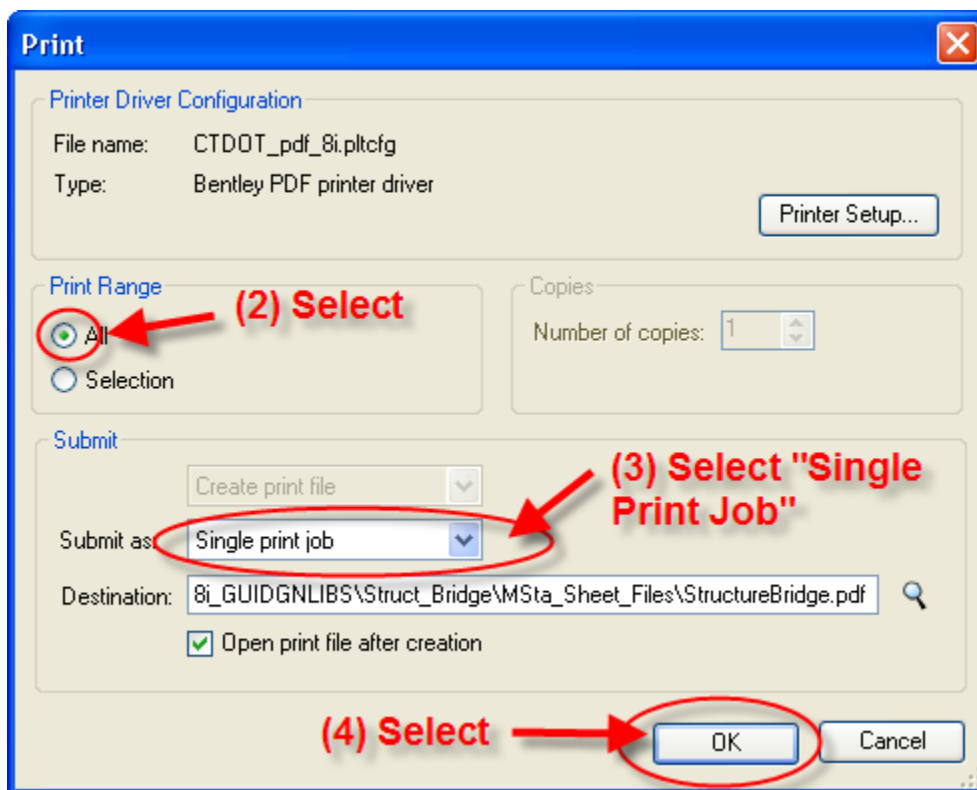


Figure 14 - Publishing PDF

The PDF file may now be printed to paper or mylar.

If the project is digital, the PDF set shall follow the below naming convention:

File Names:

03_Highway.pdf

04_Traffic.pdf

05_Structures.pdf

File Names – Facility Projects:

03_Civil.pdf

04_Architectural.pdf

05_Structural.pdf

06_Plumbing

07_Mechanical.pdf

08_Electrical.pdf

09_Environmental.pdf

10_Salt Shed.pdf

For more on PDF file Naming Conventions, and on how to use a PDF file in a digital project, see the [Digital Project Development Manual](#)

1.2 Single Contract Sheet Models

1.2.1 Contract Sheets

Standard Sizes:

36"x24" 2006 DDE

34"x22" 2007 DDE

Open a Microstation Sheet Model to publish. The sheet model must contain a transient shape and border.

Follow the figure below for publishing a single contract sheet model:

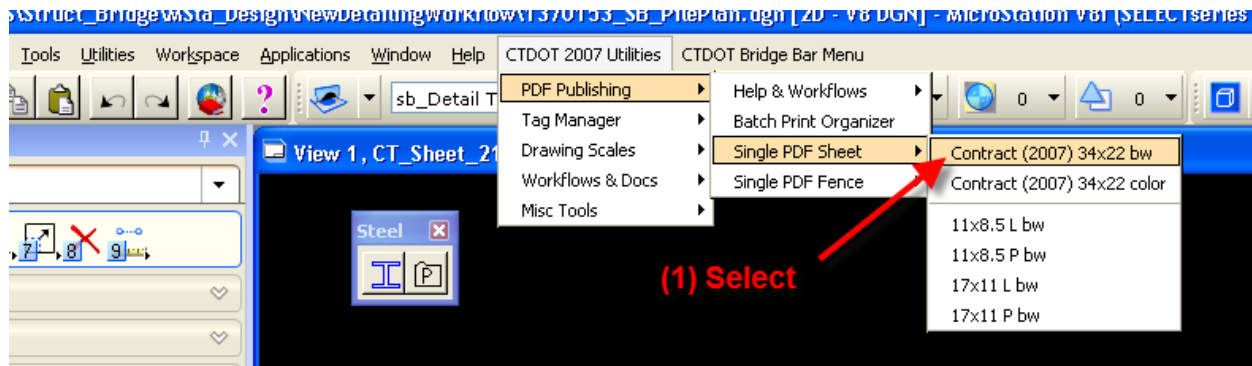


Figure 15 - PDF Publishing Single Contract Sheet

The PDF is automatically published, and is saved to the local C:Drive (C:\Plots folder). If you would like to save this PDF to a different location, go to File>Save As and save it where you want to.

Every time a single PDF is published more than once from the same file the original copy located in the C:\Plots folder will automatically be overwritten.

The PDF document will open automatically and the user will be able to review the document and print a contract sheet either paper or mylar within in Adobe.

1.2.2 Single Cross Sections

Place a fence around the cross section to publish and follow the figure below:

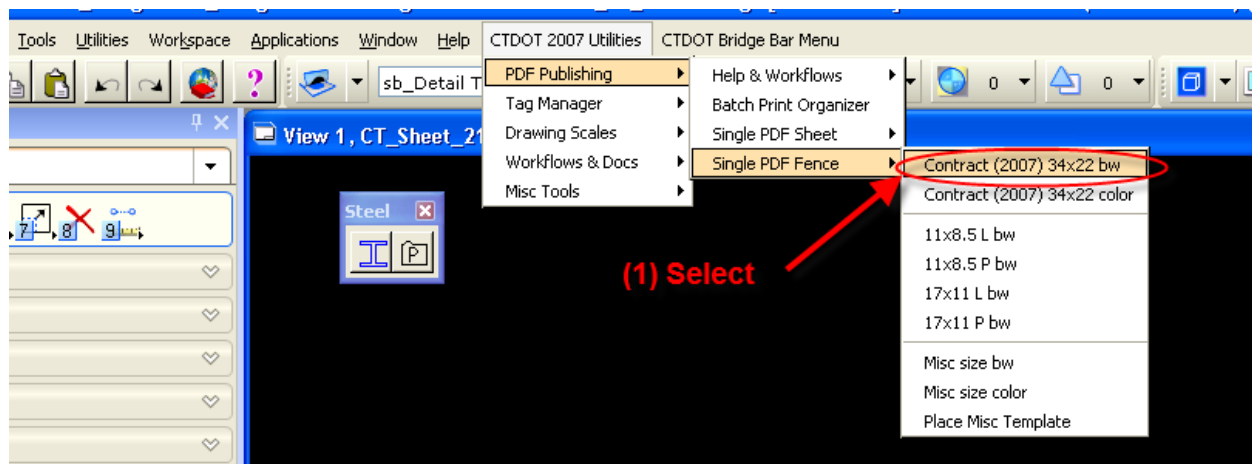


Figure 16 - Publishing a Single Cross Section

1.3 Miscellaneous Sizes

Miscellaneous size PDF's should be used when publishing sizes other than Contract Plan Standard Sheet Sizes:

Available Sizes:

Permit Plates

11" x 17", 8.5" x 11"

Large Plans

35" Wide by 36"-144" Long in 12" Increments

41" Wide by 36"-144" Long in 12" Increments

Random Fence

Sizes can be any size paper.

For plans longer than 144" please see AEC Applications.

1.3.1 Large Plans (using Border Template) 40 Scale

Open a MicroStation file:

1" = 40'



Figure 17 - Large Plan

The following publishing extents template was created for both 35" and 41" wide PDF files. This template shall be placed over the design file content to delineate the publishing extents. A 35"x47" PDF will print to a hard copy 36"x48" paper size, yielding a ½" margin.

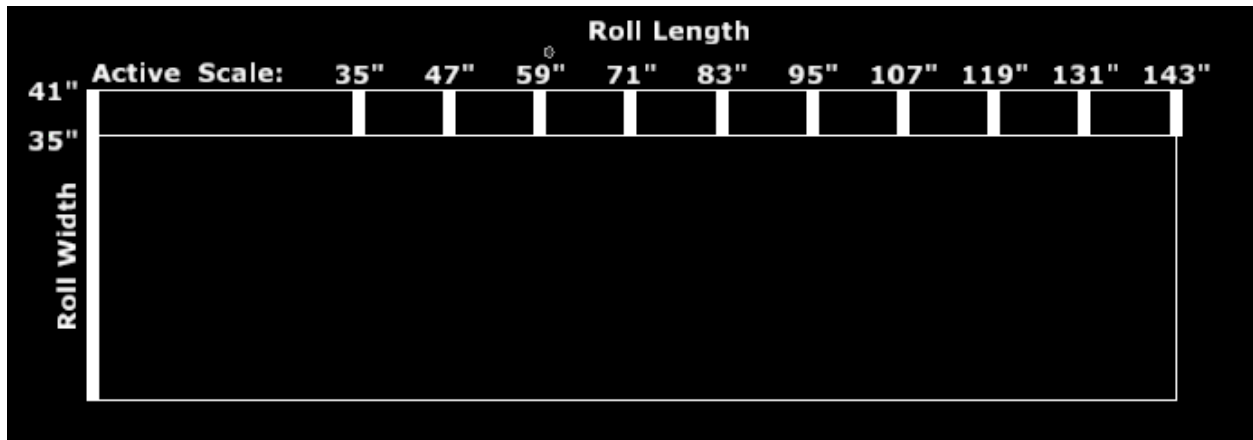


Figure 18 - Extents Template

Follow the figures below to place the extents template cell to publish a drawing in 40 Scale:

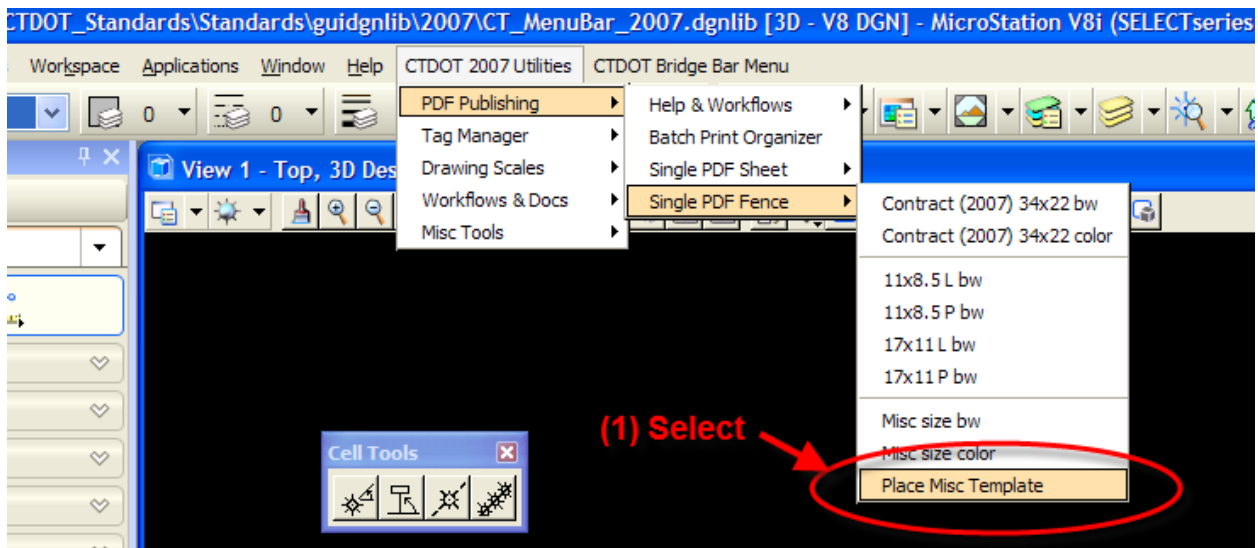


Figure 19 - Placing Extents Template

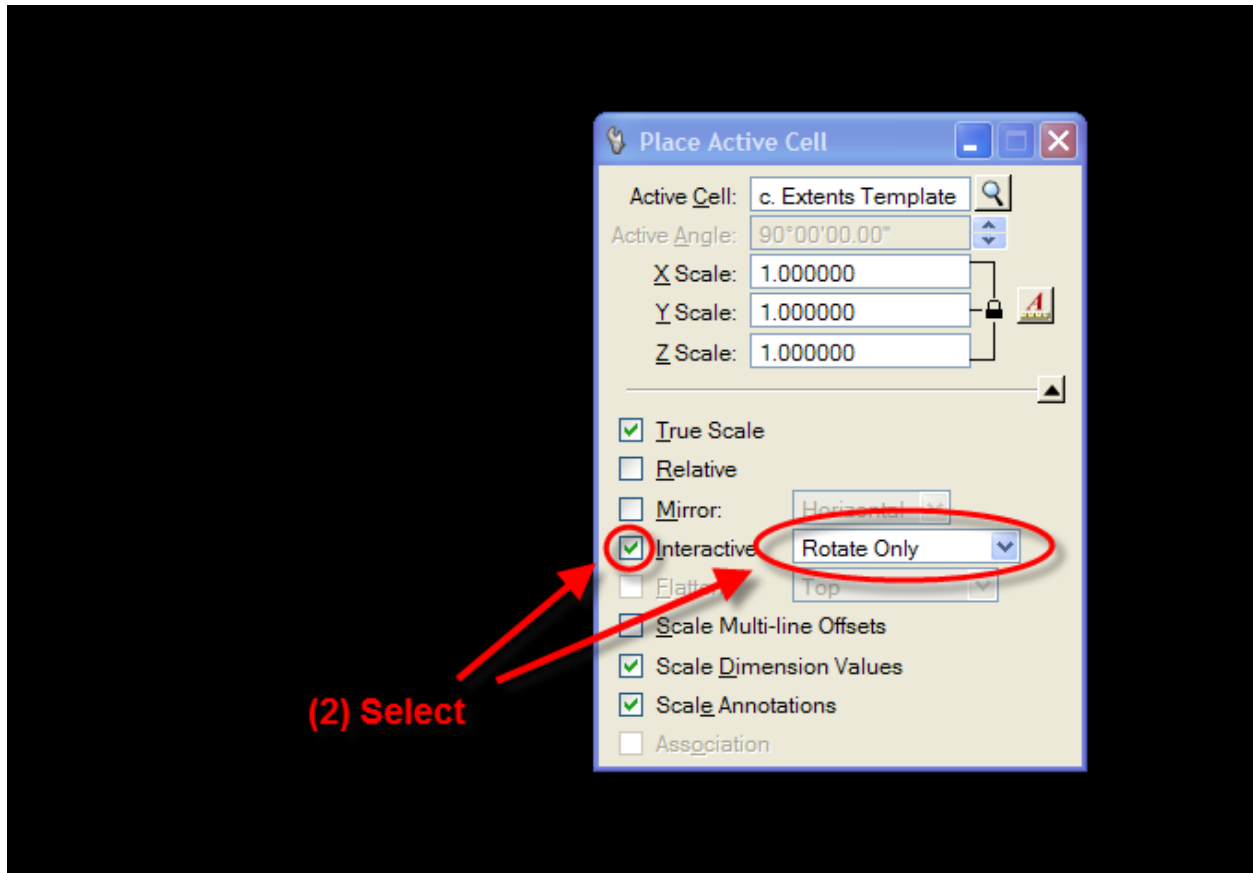


Figure 20 - Misc. Extents Template Cell Dialog Box

The template elements possess construction attributes therefore they will not print. Template was designed to work on design files that are 40 scale if placed with the cell scale set to 1.0. The cell scale may be required to be changed be adjusted by changing the cell scale.

Note: The construction tab under Settings>View Attributes must be toggled “On” to see any construction elements.

Place the extents template as shown in the following figures:

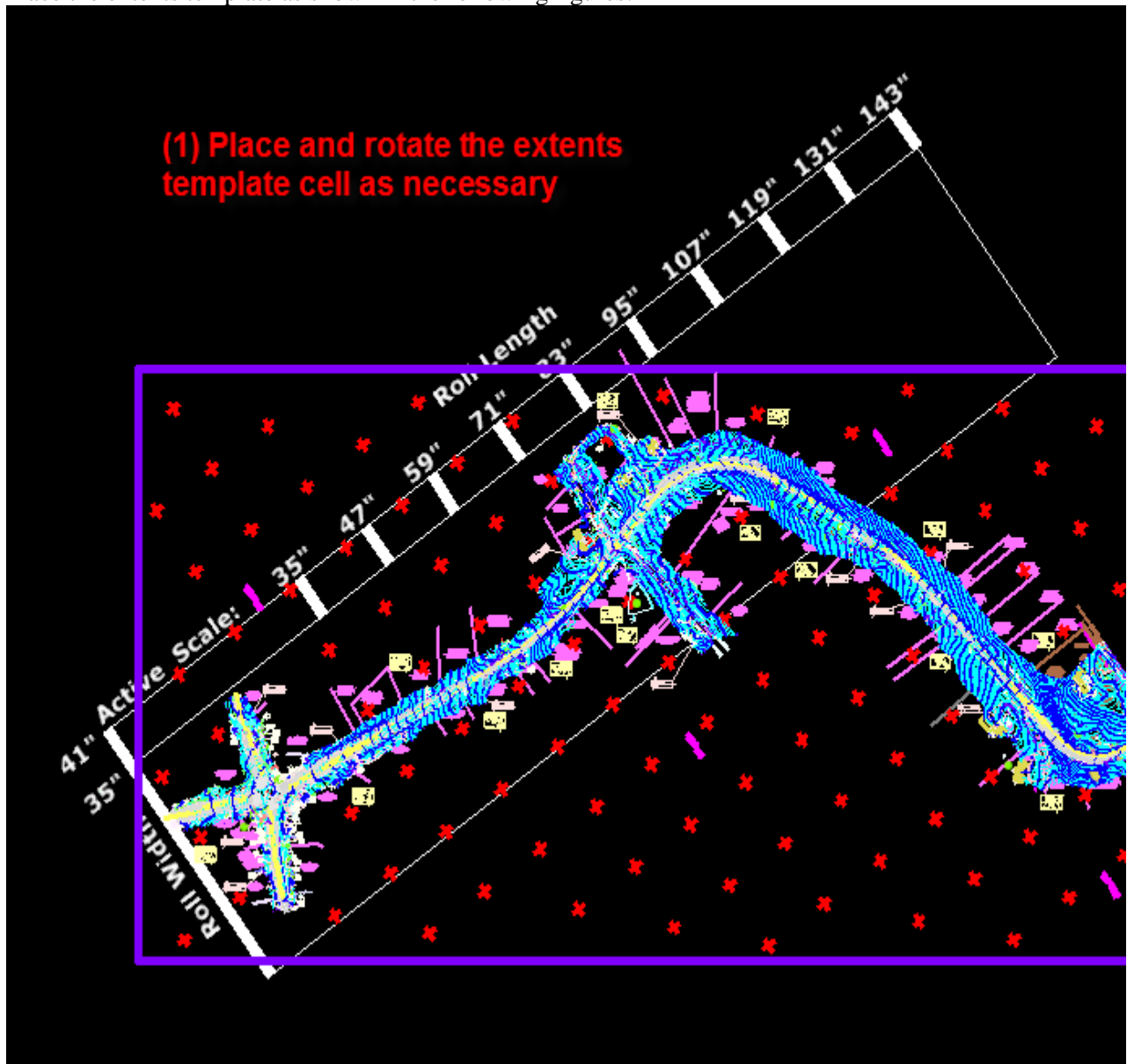


Figure 21 - Placing Extents Template

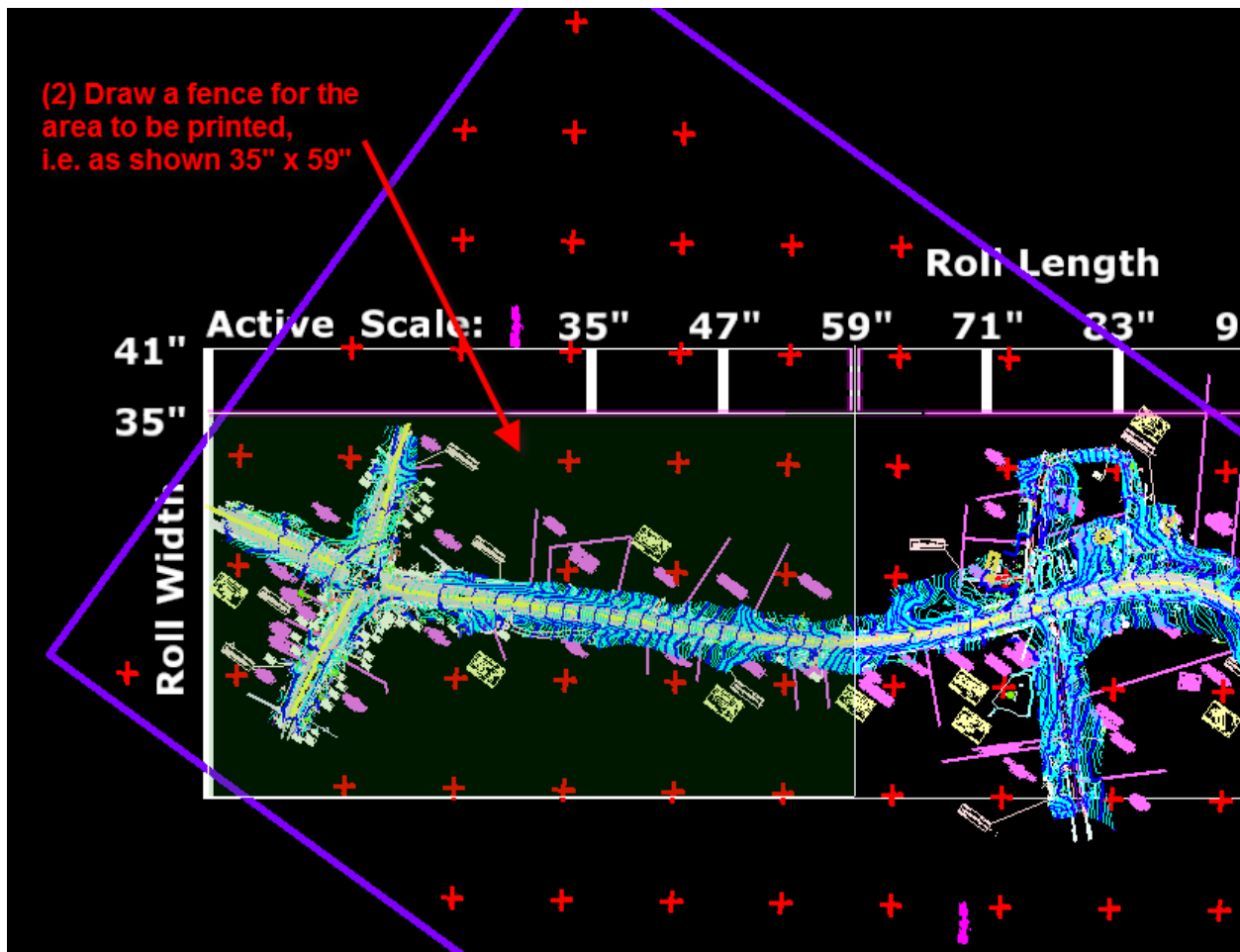


Figure 22 - Placing Fence for Print Area

Note:

In State Design the OCE 700 plotter is limited to a 36" wide roll of paper, and the Color Plotter (Colorwave 600) is limited to a 42" wide roll. Therefore PDF files that are 41" wide can only be printed on the color plotter, and 35" wide PDF files may be plotted on either the Color or the BW Plotters.

After placing the fence follow the figures below to publish a PDF:

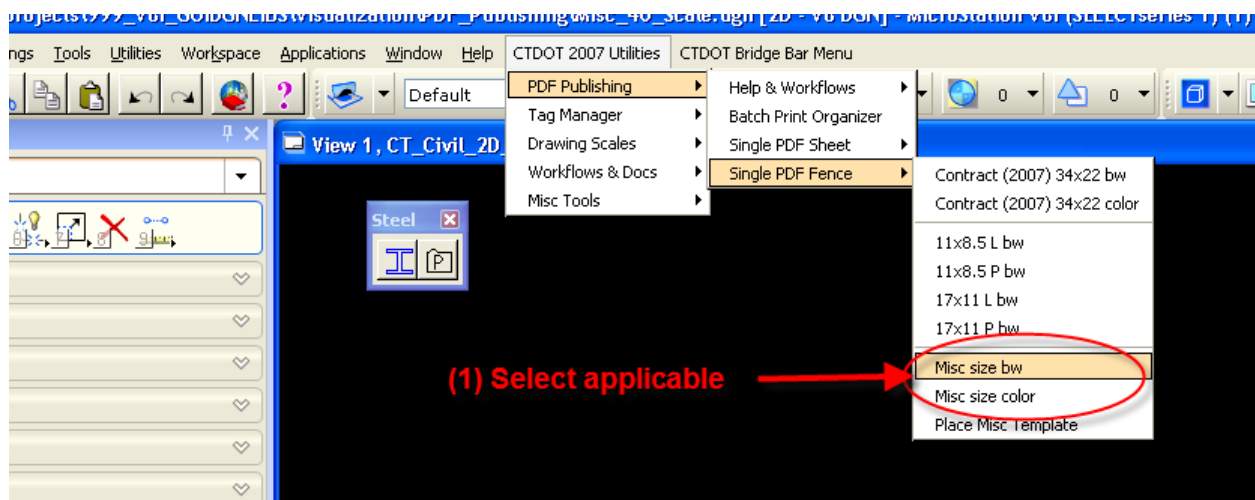


Figure 23 - Publishing Misc. Sizes

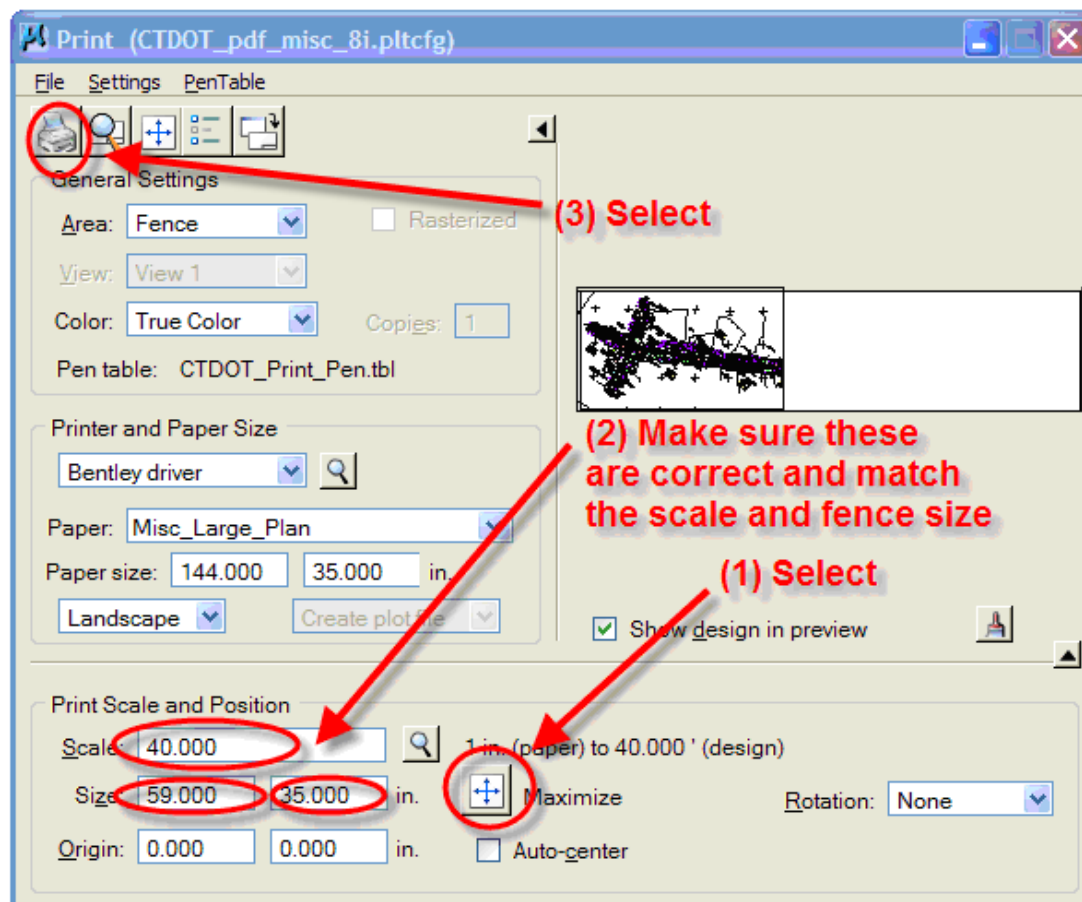


Figure 24 - Print Dialog

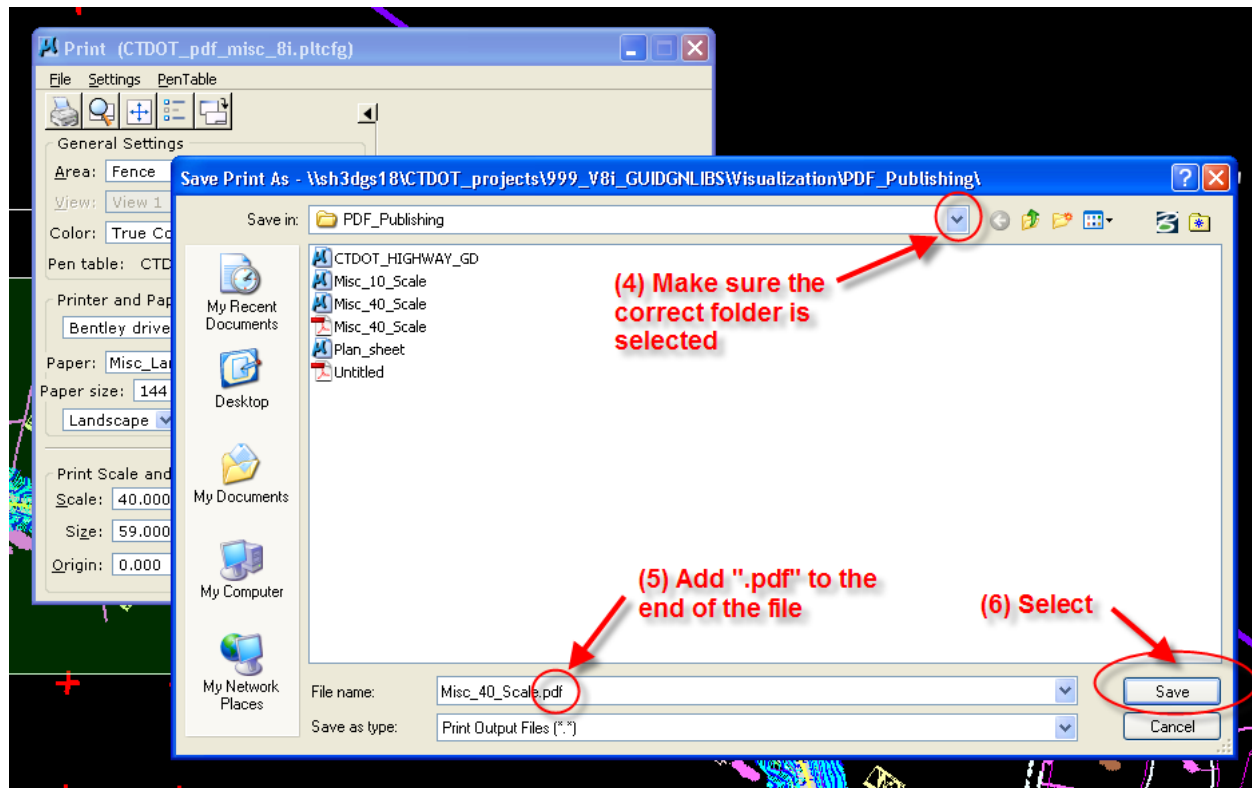


Figure 25 - Saving the PDF

The pdf will automatically open once the user hits save.

1.3.2 Large Plans Longer Then 12 Feet

The user has the ability to publish drawings that are longer then 12 feet. First place the misc. plot template, this will give you a good place to start when you have to draw the fence. Next draw a rectangle on the template that is 35" wide by the required length of your drawing. If it is 14 feet long draw the rectangle 13' -11" or 167 inches. Next following the figures below for creating the pdf:

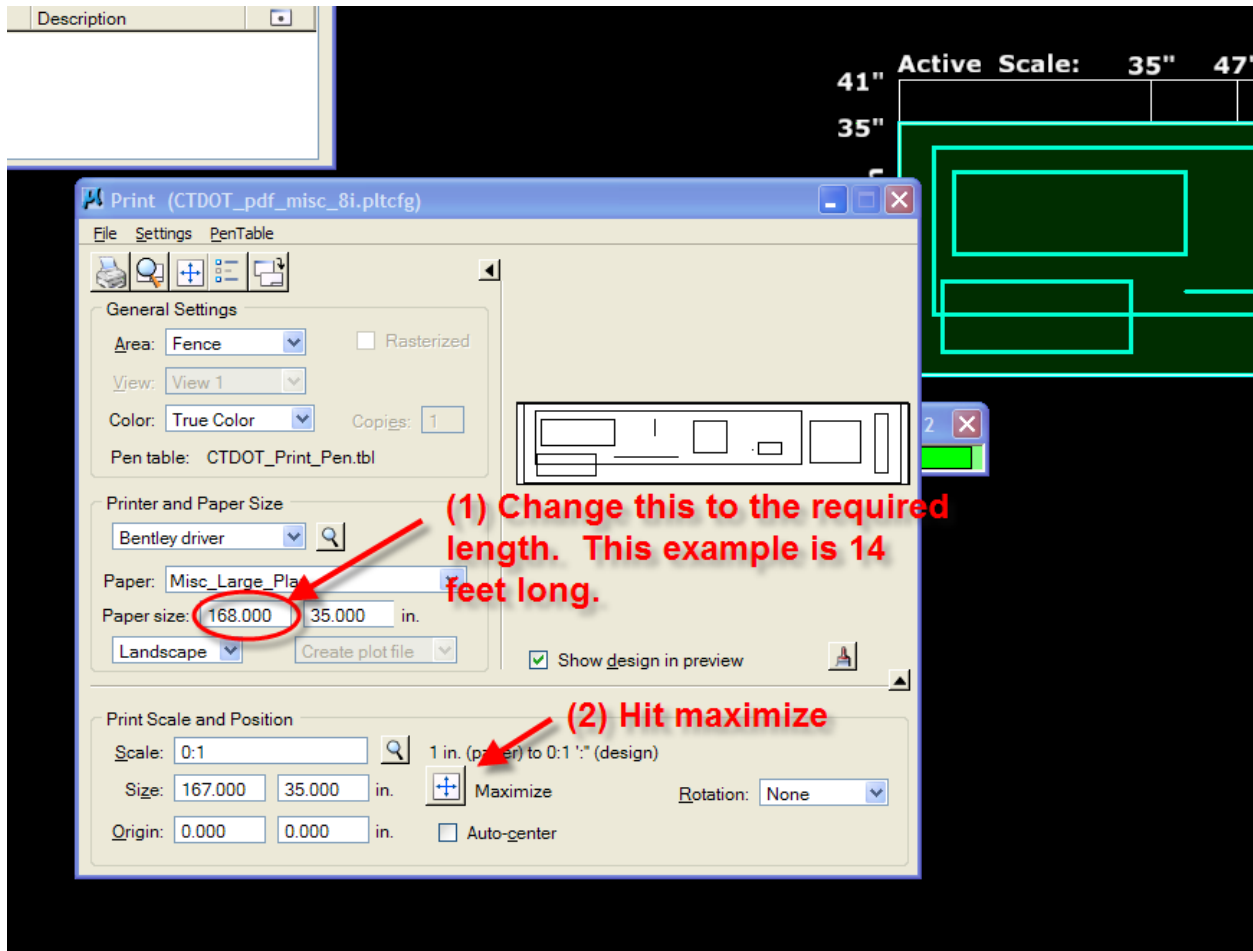


Figure 26 – Large Plans Larger then 12 Feet

1.3.3 Large Plans (using Border Template) Other Scales

To publish large plans using the border template in scale other than 40 scale follow the example in the following figures for a 10 scale plan:

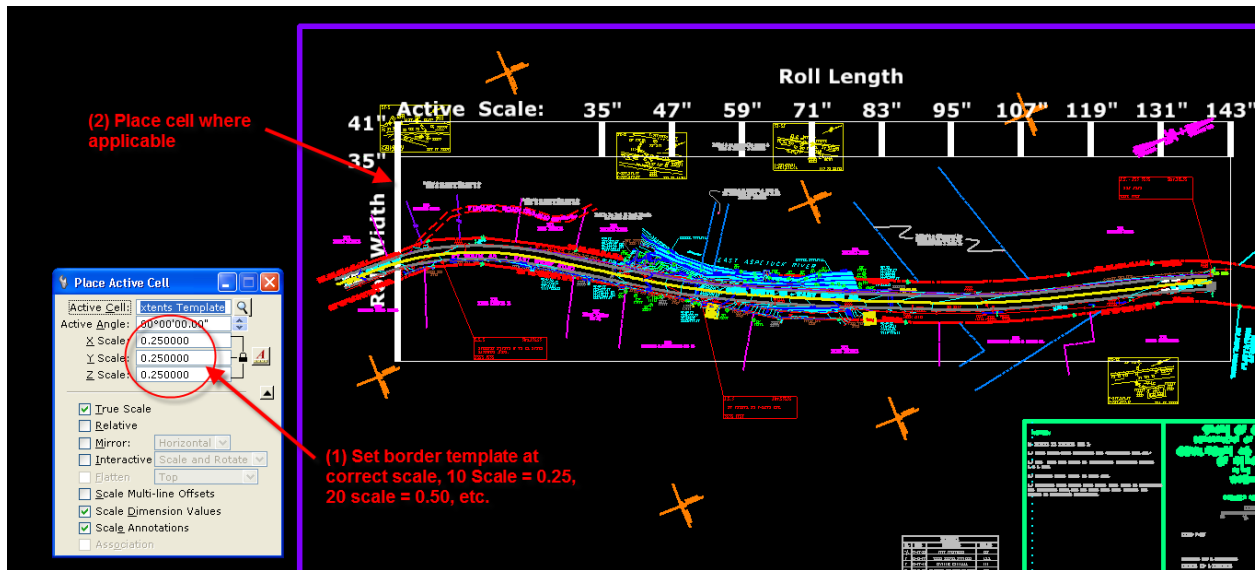


Figure 27 - Large Plan non-40 Scale

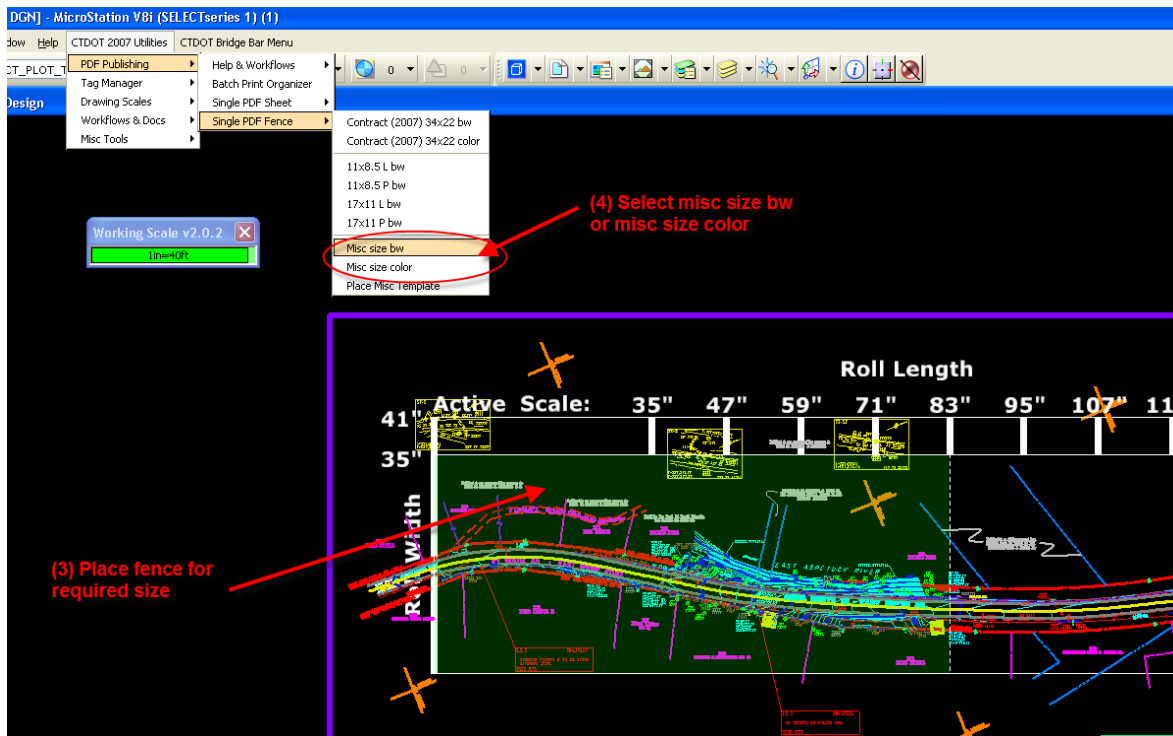


Figure 28 - Publishing Large Plan non-40 Scale

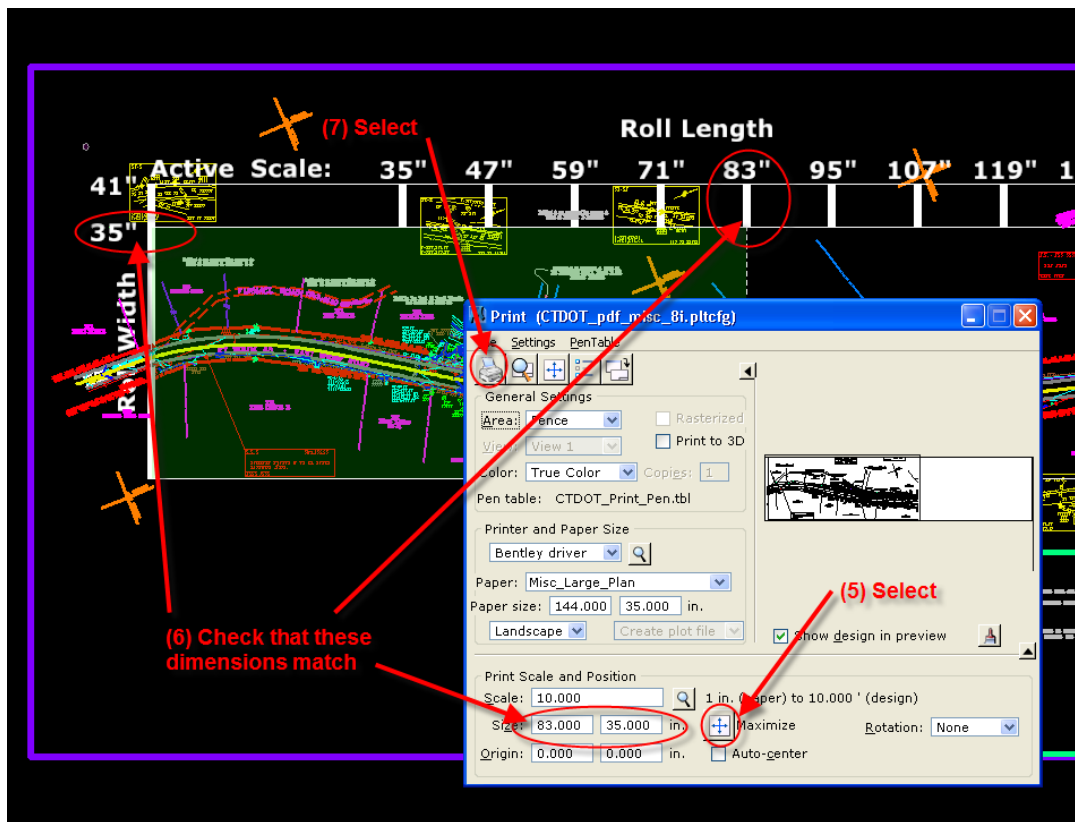


Figure 29 - Publishing non-40 Scale

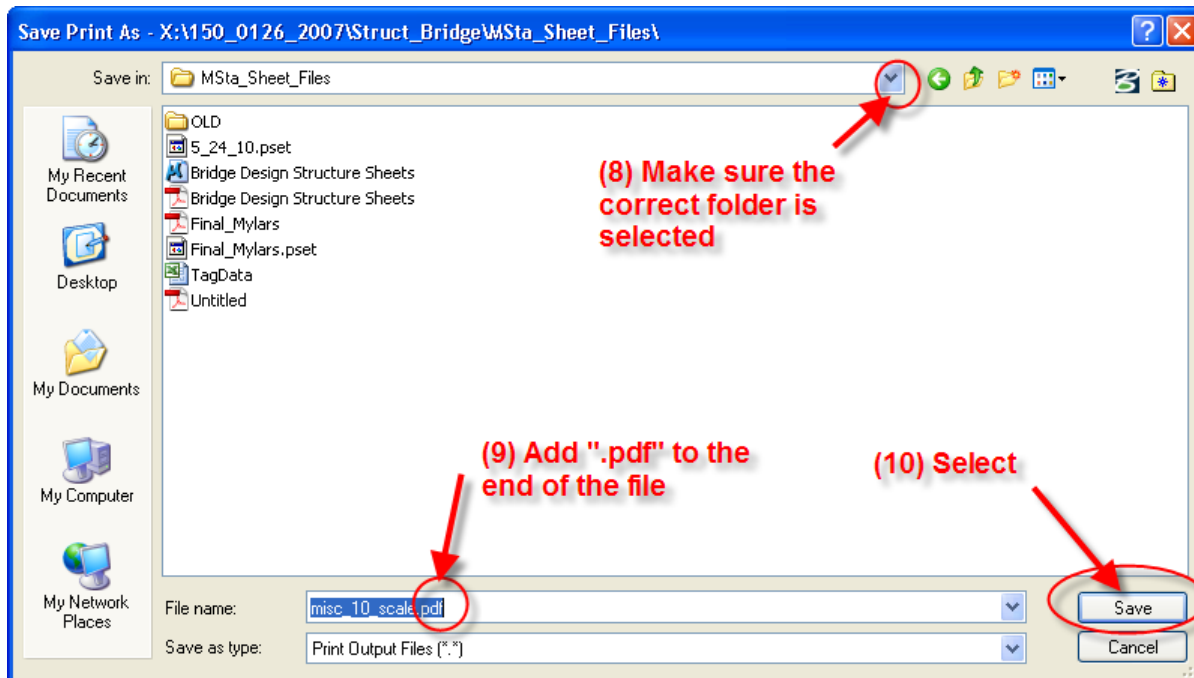


Figure 30 -Saving Large Plan non-40 Scale

The PDF will open automatically for review and printing.

1.3.4 Miscellaneous Fence Random Size

To create pdf after drawing a random fence, follow the figures below:

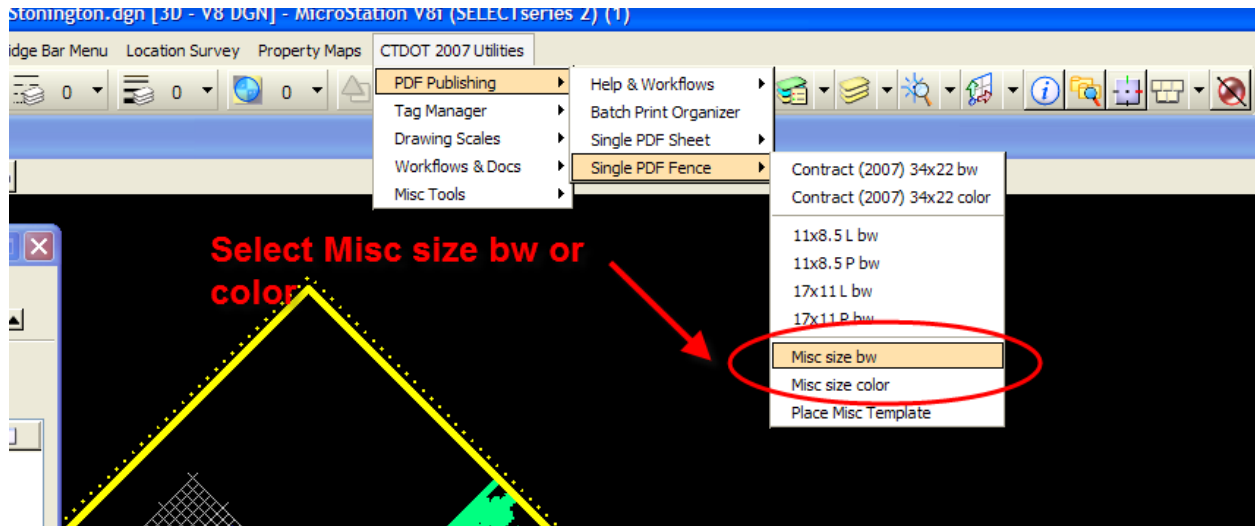


Figure 31 - PDF of Random Fence

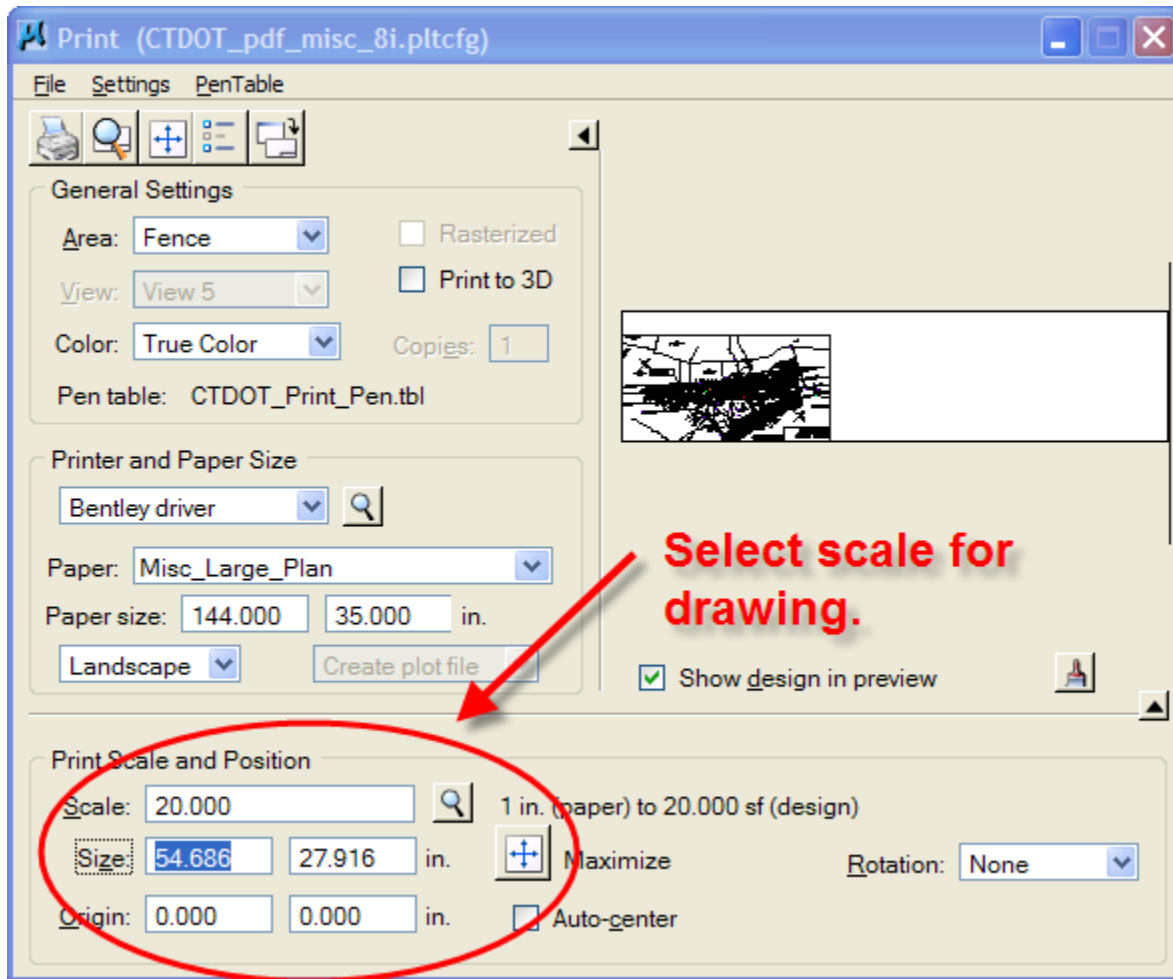


Figure 32 - PDF of Random Fence

If the size circled above is exactly 144" or 35", your fence is too big and at the scale selected above you will lose some information. You will have to change scales to make the size smaller and include everything in your fence. In the above example at 20 scale the created PDF will be 54.686" X 27.916". This will can then be printed on a 60" x 36" paper.

1.3.5 Permit Plates

Note:

Create a permit plate in Microstation by following the workflow [Creating USGS and Permit Plates](#).

Follow the figure below for publishing a USGS and Permit Plates:

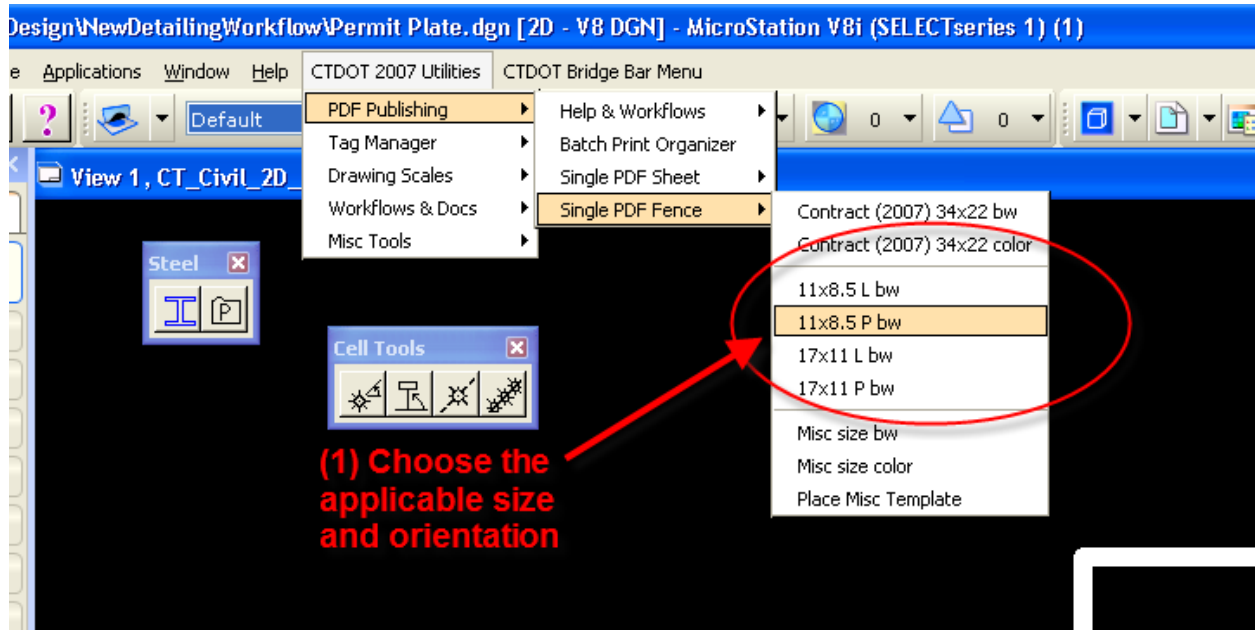


Figure 33 - Publishing Permit Plates

The PDF will open automatically for review and printing.